

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|---|------------------|---------|------------------|
| S1 | 3531 | (fixed near1 (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 08:58 |
| | | S50 same polariz\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:04 |
| | | ("mach-zehnder interferometer" or "mach-zehnder interferometers" or MZI\$1)and S28 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:39 |
| | | ("mach-zehnder interferometers" or MZIs) and (((thermo optic or "thermo-optic" or (therm\$2 adj optic\$2)) near3 heater\$1) same ("push-pull" or (push adj1 pull)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:18 |
| | | "mach-zehnder interferometer" or "mach-zehnder interferometers" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 09:50 |
| S2 | 832 | "mach-zehnder interferometers" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 11:53 |
| S3 | 284509 | coupler\$1 splitter\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 11:54 |
| S4 | 679 | S2 and S3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 11:54 |

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| S5 | 694 | (adjustable tunable changeable variable) adj (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 11:56 |
| S6 | 25 | S2 and S5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 15:10 |
| S8 | 9353 | "Finite Impulse Response" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 15:11 |
| S9 | 694 | (adjustable tunable changeable variable) adj (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 18:20 |
| S10 | 9 | S8 and S9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 15:19 |
| S11 | 1737 | MZI\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 18:20 |
| S12 | 23 | S11 and S9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 08:55 |
| S13 | 1974 | (adjustable tunable changeable variable) adj3 (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 18:20 |

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| S14 | 1737 | MZI\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 18:20 |
| S15 | 30 | S14 and S13 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/22 18:20 |
| S16 | 2 | "6785466".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 08:55 |
| S17 | 2 | "6785446".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 07:39 |
| S18 | 6 | "6351586" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 09:02 |
| S19 | 6 | "6351586" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 09:03 |
| S20 | 8 | ((("6351586") or ("6396607") or ("6400870") or ("6463186")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 09:03 |
| S21 | 392 | ("mach-zehnder interferometer" or "mach-zehnder interferometers" or MZI\$1) and (("path-length" or (path\$1 adj1 length\$1)) adj1 difference\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:39 |

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| S22 | 129 | ("mach-zehnder interferometers" or MZIs) and (("path-length" or (path\$1 adj1 length\$1)) adj1 difference\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 10:18 |
| S23 | 5 | ("mach-zehnder interferometers" or MZIs) and (("path-length" or (path\$1 adj1 length\$1)) adj1 difference\$1) and ((zero or no) near2 dispersion) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 10:19 |
| S24 | 47 | ("mach-zehnder interferometers" or MZIs) and (("path-length" or (path\$1 adj1 length\$1)) adj1 difference\$1) and (dispersion\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:18 |
| S25 | 0 | ("mach-zehnder interferometers" or MZIs) and ((thermo optic or "thermo-optic" or (therm\$2 adj optic\$2)) near3 heater\$1) same ("push-pull" or (push adj1 pull)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:21 |
| S26 | 0 | ((thermo optic or "thermo-optic" or (therm\$2 adj optic\$2)) near3 heater\$1) same ("push-pull" or (push adj1 pull)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:32 |
| S27 | 0 | ((thermo optic or "thermo-optic" or (therm\$2 adj optic\$2)) near3 heater\$1) same ("push-pull" or (push near1 pull)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:21 |
| S28 | 102 | ((thermo optic or "thermo-optic" or (therm\$2 adj optic\$2)) near3 heater\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 11:38 |
| S29 | 40 | ("mach-zehnder interferometer" or "mach-zehnder interferometers" or MZI\$1) and S28 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 13:21 |

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| S30 | 42104 | "push-pull" or (push near1 pull) and heater | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 13:22 |
| S31 | 2103 | ("push-pull" or (push near1 pull)) and heater | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 13:22 |
| S32 | 493 | ("push-pull" or (push near1 pull)) and heater and optic\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 13:22 |
| S33 | 41 | ((("push-pull" or (push near1 pull)) same heater) and optic\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 16:41 |
| S34 | 3 | doerr-christopher.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 16:41 |
| S35 | 112 | doerr-christopher\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 17:26 |
| S36 | 4 | "planar optical integrated circuit" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 17:30 |
| S37 | 796 | planar near3 optic\$2 near3 circuit\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 17:31 |

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| S38 | 3532 | "mach-zehnder interferometer" or "mach-zehnder interferometers" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 18:37 |
| S39 | 2 | 385/38.ccls. and S38 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 18:37 |
| S40 | 182 | 385/15.ccls. and S38 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 18:37 |
| S41 | 84 | 385/40.ccls. and S38 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/25 18:37 |
| S42 | 277 | zero near3 ((path adj length\$1) (path-length\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 07:40 |
| S43 | 3548 | "mach-zehnder interferometer" or "mach-zehnder interferometers" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 07:40 |
| S44 | 20 | S42 and (S43 or MZI\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 17:21 |
| S45 | 29785 | "2" and ("L3" or MZI\$1) and power | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 17:20 |

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| S46 | 277 | zero near3 ((path adj length\$1) (path-length\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 17:21 |
| S47 | 3548 | "mach-zehnder interferometer" or "mach-zehnder interferometers" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:01 |
| S48 | 15 | S46 and (S47 or MZI\$1) and power | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 17:21 |
| S49 | 4925 | ("mach-zehnder interferometer" or "mach-zehnder interferometers" or MZI\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 12:48 |
| S50 | 191 | S49 and ("quarter-wave" or (quarter adj wave)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:03 |
| S51 | 168 | S50 and polariz\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:04 |
| S52 | 0 | S50 and (low adj polariz\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:04 |
| S53 | 33 | S50 and (polariz\$5 adj dependence) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:10 |

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| S54 | 63 | S50 and (polariz\$5 adj dependen\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/04 18:10 |
| S55 | 529 | ("mach-zehnder interferometer" or "mach-zehnder interferometers" or MZI\$1) same (reflect\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 13:37 |
| S56 | 201 | S55 and (path adj length\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 13:09 |
| S57 | 236 | ("mach-zehnder interferometer" or "mach-zehnder interferometers" or MZI\$1) same (mirror) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 13:22 |
| S58 | 13 | "6351581" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 13:37 |
| S59 | 2 | "6351581".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 13:39 |
| S60 | 2 | "6304380".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 13:39 |
| S61 | 2 | "6212315".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 14:19 |

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| S62 | 2 | "6782205".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/05 14:20 |
| S63 | 177 | ((mach adj2 interferometers) MZIs) same coupler | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:20 |
| S64 | 1137 | (mach adj2 interferometers) MZIs | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:18 |
| S65 | 37 | ((mach adj2 interferometers) MZIs) near3 (serie\$1 consecutive cascade\$1)) same coupler\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:18 |
| S66 | 15 | ((mach adj2 interferometers) MZIs) near3 (serie\$1 consecutive cascade\$1)) and (dispersion near1 compensator\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:19 |
| S67 | 25 | ((mach adj2 interferometers) MZIs) near3 (serie\$1 consecutive cascade\$1)) and (dispers\$\$ near1 compensat\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:19 |
| S68 | 2 | "6785446".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:19 |
| S69 | 22 | ((mach adj2 interferometers) MZIs) and ((variable adjust\$4) near1 coupler) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:58 |

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| S70 | 40 | ((mach adj2 interferometers) MZIs) and ((variable adjust\$4) near1 coupler\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:19 |
| S71 | 47 | ((mach adj2 interferometers) MZI\$1) and ((variable adjust\$4) near1 coupler\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:19 |
| S72 | 1838 | ((mach adj2 interferometers) MZIs) same (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 08:20 |
| S73 | 1222 | ((variable adjust\$4) near1 coupler) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/18 08:58 |
| S74 | 1326 | fixed near1 (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 08:58 |
| S75 | 2043 | (adjust\$4 variable) near1 (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 08:59 |
| S76 | 8 | S72 and S74 and S75 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:30 |
| S77 | 2 | "6842547".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:03 |

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| S78 | 2 | "6807372" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:03 |
| S79 | 1838 | ((mach adj2 interferometers) MZIs) same (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:30 |
| S80 | 1326 | fixed near1 (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:30 |
| S81 | 2043 | (adjust\$4 variable) near1 (coupler\$1 splitter\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:30 |
| S82 | 8 | S79 and S80 and S81 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:30 |
| S83 | 1 | mirror and S82 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/18 11:37 |
| S84 | 2 | "6785466" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/19 10:58 |
| S85 | 4 | "6785446" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/19 10:58 |